

3. 【救濟金發放/The Dole Queue】

n ($n < 20$) 個人站成一圈，逆時針編號為 $1 \sim n$ 。有兩個官員，A 從 1 開始逆時針數，B 從 n 開始順時針數。在每一輪中，官員 A 數 k 個就停下來，官員 B 數 m 個就停下來（注意有可能兩個官員停在同一個人上）。接下來被官員選中的人（1 個或者 2 個）離開隊伍。

輸入 n, k, m 。輸出每輪裡被選中人的編號（如果有兩個人，先輸出被 A 選中的）。注意：輸出的每個數應當恰好占 3 欄。（Page 4-26，UVa133）

輸入（註 1）：

10 4 3

0 0 0

輸出（註 2）：

4 8, 9 5, 3 1, 2 6, 10, 7

（註 1）

Input

Write a program that will successively read in (in that order) the three numbers (N, k and m ; $k, m > 0$, $0 < N < 20$) and determine the order in which the applicants are sent off for retraining. Each set of three numbers will be on a separate line and the end of data will be signalled by three zeroes (0 0 0).

（註 2）

Output

For each triplet, output a single line of numbers specifying the order in which people are chosen. Each number should be in a field of 3 characters. For pairs of numbers list the person chosen by the counter-clockwise official first. Separate successive pairs (or singletons) by commas (but there should not be a trailing comma).

Note: The symbol \square in the Sample Output below represents a space.